

MASSACHUSETTS PLOUGHMAN

DEVOTED TO AGRICULTURE
HORTICULTURE, THE FARM
AND THE GARDEN

NEW ENGLAND

AGRICULTURE

JOURNAL OF

VOL. LXIV. - NO. 34

BOSTON, MASS., SATURDAY, MAY 13 1905

WHOLE NO. 3302

MASSACHUSETTS PLOUGHMAN
NEW ENGLAND JOURNAL OF AGRICULTURE

Official Organ of the N. E. Agricultural Society.

MASSACHUSETTS PLOUGHMAN PUB. CO.

Publishers and Proprietors.

ISSUED WEEKLY AT

NO. 2 STATE STREET,

Boston, Mass.

TERMS:

\$2.00 per annum, in advance. \$1.00 if not paid in advance. Postage free. Single copy 25 cents. Advertisers and contributors to THE PLOUGHMAN for use in its columns must sign their name, not necessarily otherwise they will be considered to the good of the paper. All matter intended for publication should be written on one side of paper, with ink, and upon one side only.

Correspondence from practical farmers, giving results of their experience, is solicited. Letters should be signed with the writer's name in full, which will be printed or not, as the writer may wish.

The PLOUGHMAN offers great advantages to advertisers. It reaches the most active and intelligent portion of the community. Mailed as second-class mail matter.

Farm Hints for May.

With favorable conditions May will be a busy month on the farm. Fortunate those farmers who in fall and winter advanced their work as much as possible.

FROM HAY TO GRASS.

Stock, and particularly the cows, should be kept in the stable or yard until there is a fair bite of grass, enough with their other feed to keep them from shrinking in milk. If they could have the run of a moderate-sized inclosure that would answer a good purpose.

Farmers will find it for their interest to do their best by their cows at this time when butter is bringing such high prices. The period in changing from dry fodder to grass should be managed wisely. After getting a bite at the grass the relish for hay is soon lost, so in this case the grain feed should be kept well up, and as long as necessary or will be found to pay.

THE CONDITION OF THE BUTTER MARKET.

It is an unusual occurrence to have prices after the spring drops, recover and return again to nearly where they were at their highest point, so different from a year ago when the markets were fairly demoralized with the abundance of storage butter and the new make. But perhaps a few weeks will change conditions materially. In the meantime the past few months has proven very satisfactory and helpful to those farmers who were having a good supply of milk.

PREPARING FOR THE HAY CROP.

There is a kind of work that should be attended to at any time of year when it is demanded. Where manure was spread on the grass-fields last fall or winter and it was left unevenly scattered about or in lumps, it should be gone over and thoroughly pulverized in some manner. If this is not attended to the results can hardly be satisfactory.

The manure needs to be in a fine condition and evenly spread to do the most good. If the ground is dry enough running a smoothing harrow or weeder over it will help to pulverize the manure.

A good bush or clod crusher, even, will answer an excellent purpose, as they will fine the manure and press it down about the roots of the grasses where it will do the most good.

The writer remembers of once seeing a man doing this kind of work with a capacious bush, on which he was comfortably seated. As he was a hearty man, the work was well done, the manure being pressed almost out of sight.

Where stock were allowed to run on any of the fields last fall, their droppings should be broken up and scattered about. All this will pay in the increase of the crop produced.

PUT THE WOOD UNDER SHELTER.

Every farmer who depends on wood for his fire should have an abundant supply, enough to furnish dry fuel the year round.

Not only should it be prepared for the stoves or furnace in season, but it should be placed under shelter early. A pile of wood that is left out of doors until fall is apt to lose much of its value. It will not burn as readily and freely and the life appears to be gone. This can be prevented by putting under cover early and then the good housewife will have no reason to complain of wet or soggy wood.

The same may be said of wood for sugar making. There should be an abundant supply for this purpose. It may be of the poorer qualities, such as would not be suitable for the house or market, but it should be well protected and dry. In boiling sap wood that will ignite quickly and produce a "good flame" is what is wanted.

THE BUSY BEES.

It is not well to begin feeding the bees for the purpose of stimulating them in brood rearing until settled, warm weather has come. Feeding them too early in the spring often does a great deal more harm than good, because the bees during a cold spell attempt to cover all the brood, with the result that they as well as the brood perish.

When breeding is heaviest bees require most water. In early spring they may be seen about the well in search of this necessary article, which goes to make up their daily bill of fare. They will fly a great distance for it, if not obtainable near by. Many bees are lost and chilled when thus carrying water for their brood.

If there is no water accessible, close to the apiary, it will pay to supply some. Take a barrel and set it a few feet from the ground, fill it with water and cover the top so no bees will be drowned. Then bore a very small hole near the bottom of the barrel and let the water drip on a board. The board should be slanted slightly to cause

the water to flow slowly along. From this source the bees will be able to help themselves. The nearer the water is to the apriary the fewer bees it will require to be water carriers, a very important feature at this season when the warmth and energy of every bee are needed in the hive to help build up the colony. When honey begins to come in from the field, it is no longer necessary to supply them with water, for they will get enough of it in the thin nectar which is daily brought into the hives. When running for comb honey it is hard to prevent swarming, although many of the inconveniences attending it can be greatly reduced. I would have the prime swarm in an empty hive on frames of foundation or empty combs, on the old stand and give it a super of sections. The other colony I would place in an entirely new location, which transfer will have the effect of reducing the parent colony so much in strength that there will be no further swarms from that one. If you cannot get around to clip all the queen's wings in the spring, put performed entrance guards over all the colonies having unmated queens.

ODDS AND ENDS.

In the spring time there is quite a little work that needs to be done around the buildings. Rubbish is apt to accumulate and should be disposed of. That which makes kindling wood should be kept for the purpose and make a bonfire of the rest. And no one should fail to go clear around the buildings and yards with this cleaning-up process.

The buildings should not only be kept in proper repair, so as to appear neat and attractive, but the surrounding grounds should be put in presentable appearance. This will add to the good looks of the premises, and when well done will be a source of pleasure to the owner and merit the approbation of the passersby.

A little spare time now and then will accomplish much in this direction, and prove most satisfactory to those interested in their homes. The men should not hesitate to help the women in their endeavors to beautify the home. Do not begrudge the little time needed for this work.

THE CHICKENS.

From the time chickens are two days old they should be fed as much as they will eat, at first several times a day, and then less frequently but liberally each time and of such variety as to stimulate their appetite, warm mash, every day, cracked corn, millet seed or wheat, and after the fourth week a little meat meal or ground beef scraped in the mash. These are better than the ground raw meat and bone which many make praise, as they are less likely to cause bowel trouble, and they are cheaper because one pound has as much nutriment as four or five of raw meat.

When the early chickens weigh a pound and a half each there is usually a good demand for them if well fattened at a dollar a pair or more, which may be more profitable to supply than to keep them until larger, but if one cannot distinguish the cockerels and wishes to keep the early pullets for the next year's stock, wait until the best of the pullets can be selected and sell the cockerels and the culs from the pullets.

If they are to be kept longer than that age separate the sexes, as both will grow faster and fatten better if this is done. When the pullets are four or five months old it will be time enough to begin to feed them a less amount and to allow them more exercise that they may prepare for laying rather than continue to fatten, but up to that age they will not get too fat. I have had Plymouth Rock pullets laying at five months old, and others have done as well with Wyandottes.

If they are to be kept longer than that age separate the sexes, as both will grow faster and fatten better if this is done. When the pullets are four or five months old it will be time enough to begin to feed them a less amount and to allow them more exercise that they may prepare for laying rather than continue to fatten, but up to that age they will not get too fat. I have had Plymouth Rock pullets laying at five months old, and others have done as well with Wyandottes.

When one has room enough for the chickens every hen that becomes broody may be allowed to hatch out a brood of chickens, as the time it requires is little if any more than that required to break them of the brooding instinct. Until they get much above the 150 eggs a year, which not many flocks reach, there will not be many eggs in the year from the time the pullets begin if she stops to raise a brood of chickens than if she does not, and at the end of that year she should be killed to make room for younger stock unless she has some especial claims, either for breeding or rearing chickens. Many experiments have shown that hens over two years old do not lay as many eggs as those less than that age.

If it is desirable to have hens nearly alike in size and form to secure uniformity in the chickens, it is even more important to have a good male bird of pure blood to mate with them. He should be of the same breed as the hens, but need not of necessity be a show bird, and in fact I would not care to take a bird that had taken a prize in a Poultry Show, but would prefer the brother of such a bird if nearby so good, that had not been in the heated atmosphere of a crowded hall. Such birds can often be bought for a few dollars each, and for all utility purposes are fully equal to those which are valued much higher. One good male with fifteen or twenty hens should produce as many eggs as would be needed to hatch under two or three times that number of hens, and it is better to select a few of the best hens to breed from and keep a few with the others.

MAKING A SMALL GARDEN.

Spade or plow and turn under the sods and grass, if any. Break the surface until the soil is fine and the rubbish removed. A garden seed drill in a great saver of space in planting because of its regularity in marking the rows and distributing the seed. Seeds should be planted a little deeper on light dry soil than on moist soil. For a small garden, fertilizer is very convenient and contains no weed seeds. Use plenty of lime and sow broadcast before raking the soil.

Sweet pea, garden pea, cukes, radishes,

etc., may be planted as soon as the ground can be worked, but apt seeds come up poorly if planted too early, and nothing is lost, as a rule, by waiting until the ground becomes a little warmer. Cover all small seeds over lightly and firm the surface by packing with the back of the hoe after planting.

Directions for distance between the rows, etc., are usually found on each seed package. Potatoes planted in the garden should be watered, a very important feature at this season when the warmth and energy of every bee are needed in the hive to help build up the colony. When honey begins to come in from the field, it is no longer necessary to supply them with water, for they will get enough of it in the thin nectar which is daily brought into the hives. When running for comb honey it is hard to prevent swarming, although many of the inconveniences attending it can be greatly reduced. I would have the prime swarm in an empty hive on frames of foundation or empty combs, on the old stand and give it a super of sections. The other colony I would place in an entirely new location, which transfer will have the effect of reducing the parent colony so much in strength that there will be no further swarms from that one. If you cannot get around to clip all the queen's wings in the spring, put performed entrance guards over all the colonies having unmated queens.

ODDS AND ENDS.

In cultivation the main point is to keep the soil stirred and the weeds in check. Do not be disengaged that with grass is plenty. It will grow fast, but so will the vegetables, and a few thorough outings with the hoe will get the best of it. If there

is now includes one of the best-known breeds of pure-bred stock in the State. There are Guernsey cattle, Cheshirewines, white Wyandotte poultry, Oxford Down, black and Scotch Collie dogs.

The Guernsey herd includes stock from noted herds. The leader is the two-year-old bull, Monmouth's Ratcliffe's Sheet Anchor, considered one of the best specimens of the breed to be found. Among the recent additions to the farm herd is a Jersey calf from an imported cow secured at the Spotted Cow sale in Pennsylvania through the co-operation of Secretary Caldwell of the Guernsey Cattle Club. One of the illustrations shows the Guernsey bull working in harness. It is found that the exercise is of much advantage to his health and vigor. He is very docile and reliable and can be used either for driving or for farm work. He drives all the fodder for the farm herd the past season.

The Oxford Down sheep are from the well-known Maine breeders and also from the herd at Teeswater, Ont. The herd of swine numbers about fifty, the stock coming from well-known herds in Pennsylvania and Ohio. The poultry yards include several hundred fowl, all pure-bred white Wyandottes.

The original capacity of the farm has been increased through buying what is called the Annex Farm, thus securing plenty of pasture and tillage land. At this Annex Farm is a feed mill at which all the grain for the live stock is prepared. It is bought in car lots, ground and mixed on the farm. "In this way," said Mr. Blair, "we know what is being fed, and only first quality of feed is purchased, whether for the cattle or for the swine." A portable gasoline engine is used on one farm and a steam engine on the other, and all the work possible is done with machinery.

Poultry on the Farm.

If the farmer by following the directions in a previous article gets his chickens up to a week old in good health and vigor, he should not lose many after that age, and should keep them growing every day. I said that at a week old I alternated their feed with a warm mash in which I then began to put a tablespoonful of greased soap to each quart of grain, and at next feeding give cracked corn and wheat or barley. There are some who claim they need no mash, and begin on grain from the start, but I would continue the mash at least once a day until they are large enough to sell as broilers. Remember the need of charcoal in the mash, and grain always at hand to help them grind the dry grain, also the fresh green, or a little lettuce every day.

There is in the larger markets a demand for what are called "squab broilers," weighing twelve to eighteen ounces dressed, but is limited to a few buyers, and unless the farmer knows who will pay for them he will be safer to allow them to grow until they will weigh about two pounds alive, or later in the season to 2½ pounds. At that weight each good chicken will sell early in the season for almost as much money as it would if kept and fed three months longer, and while broilers of two pounds each sell at \$1.50 a pair, it will not pay to grow them to five pounds and sell them at fifteen cents a pound. This is the time to select out all the cockerels and all but the very best pullets from the early hatching and sell them. If of the American breeds they should be plump and fat at that weight.

Later-hatched chickens do not usually sell as well as the broiler size, and it may be better to allow them to grow until they will dress from four to six pounds each. Then sell the flocks of all that are not intended for winter layers. Save few or no cockerels, none if the flock is not pure-bred, as it is better to pay the price of a half-dime monogram for one pure-bred male to improve the flock than to use the handsomest half-blooded one you can raise. I should save all pullets that did not come in form and feather very near to the markings of the brood from which I had used as a male to breed from. Those that are not marked well in feathers may prove as good layers and make as good poultry, but I have a fancy for a flock of hens uniform in size and color, as I have for a well-matched pair of horses or yoke of oxen, and if I kept any that were not to my liking I would not have them.

THE BOILED FLAVOR.

but the safe point is 120°. By this degree of heat a sufficient number of the bacteria which produce acidity are destroyed or rendered impotent. The sterilization of milk is for the purpose of entirely destroying all the bacteria, especially those which are regarded as disease-producing germs. It is practically boiled milk in a condition more suitable to the digestive apparatus of infants and invalids. To sterilize milk it is necessary to boil it in a glass vessel placed in water, and the opening closed with clean sterilized cotton. Then all germs life is destroyed, and if carefully bottled and sealed, it will keep for months at least. Without going into minute details, this is an explanation of the differences in the two processes, and the objects to be obtained.

STOCK FARMING IN THE MOOSEHEAD LAKE REGION.

A more beautiful country locality could hardly be found in New England than that of Hillside Farms, Greenville, Me., on the shores of Moosehead Lake. The locality combines forest, mountain and lake scenery. It is on the borders of New England civilization with only a little village near by and vast areas of forest in the background. From in front appear wide views across the finest lake in New England with mountain views in the distance.

The farm was originally started on the summer-home plan, but the owner, Mr. Lyman Blair, being an enterprising breeder, as well as prominently connected with other lines of business, saw the advantages of the place as a live-stock farm, and the establish-

If two or three hens are set at the same time and bring out but few chickens each, they may be all given to one hen, but the number should not exceed fifteen to one hen at any time and in cold weather it is better to limit her to ten. There is not much gained by taking chickens from the hen if she cares for them well, as the hen that hatches and brings up a brood of chickens has a vacation long enough to lay more eggs and a larger litter of them when she does begin than a hen that is broody and is broken up, or one that loses her chickens. Those that set in the spring will usually become broody again in the fall, and then is the time to dispose of them, as they are fat then and the spous is needed for the pullets. The money received for chickens and old fowl sold in a year or used at home should exceed the value of the eggs received, even if the flock averages fifteen dozen a year, which few flocks will reach even when no chickens are raised.

M. F. AMES.

Dairy System Pays.

First select same good breed, the one best adapted to your locality, and most to your liking, and then establish a system in caring for the herd and be regular in carrying it out in every detail.

Feed at the same time each day, and the same amount. Do not think that you can feed three times one day and feed the same amount at two feeds the next and let the cows go without the third feed and get the same result. It does not matter so much how many times a day you feed as it does to feed the same number of times each day.

The Oxford Down sheep are from the well-known Maine breeders and also from the herd at Teeswater, Ont. The herd of swine numbers about fifty, the stock coming from well-known herds in Pennsylvania and Ohio. The poultry yards include several hundred fowl, all pure-bred white Wyandottes.

Cows should have their place in the stable, and be tied in the same stallion each time. This will avoid much confusion in tying them up, as each cow will soon learn her place and take it, and besides a tieup full of cows looks much better if the cows are arranged in order according to size, being graded from one end of the stall to the other.

Again it is much more convenient to feed a lot of cows if they are in the same place each time so that the feeder knows just which one he is feeding even if he cannot see her. As hardly any two could require the same amount, this will be found a great convenience. Feed regularly; water regularly; groom regularly; tie up regularly, above all, milk regularly.

A cow allowed to go any length of time beyond her usual milking time becomes uneasy and restless to the detriment of both quantity and quality of milk.

A cow also becomes used to a milker and should have the same one right along.

The idea of a man, whom I recently met, although quite original and perhaps having some good features, was, I believe, wrong in the main. He let his cows come into the stable and take their place anywhere it happened, and then at milking time he and his men began at one end and milked the cows as they came to them. This he said he did because it was difficult to get good milkers, and in this way he got a chance to milk each cow himself once in a while and find out if she was all right. He seemed to forget that the poor milker got the same chance to poorly milk all of the cows as well as himself and thus damage the whole herd.

Establish a system about your stable work and then abide by it to the nearest perfection possible and see if it does not pay.

Rutland County, Vt. E. M. PIKE.

Using Hand Separators.

Dairy.

Butter Markets Weakening.

The butter market has continued its declining tendency, having held up the price as long as could possibly be expected in view of the opening of the pasture season. Some dealers believe the drop will continue some time longer owing to the certainty that receipts must greatly increase for some time to come.

Dealers seem to think the time has come for a lower price on the new make of butter, although receipts have not been increased very rapidly yet. Indications point to a large production, although in some parts of the country the pasture is backward.

When the decline in butter got well under way it went forward at a fairly rapid pace, owing to the lateness of the season. It is not the large receipts so much as the expectation of increased shipments with the opening of the pasture season that has affected the situation. The actual supplies on hand are still not large and the decline of about five cents from the recent highest is hardly warranted by anything in the immediate situation. Consumers are taking advantage of the drop and demand is better.

Butter creamery sells at 25 to 25 1/2 cents, comparing with 30 to 30 1/2 cents three weeks ago. The supplies are well taken care of at the price, and it is hard to see any reason for a further decline just now; in fact, it would not be surprising if a little of the fall should be recovered before the shipments of the new make get well under way.

There is a good call for the cheap grades of butter, a rather unusual condition, and these grades are in short supply. Buyers seem willing to pay full value for seconds and thirds as well as for fats and extras. Creamery thirds bring within three to five cents the price of extras. Vermont and New York dairy is arriving in fairly liberal quantities and sells readily at one cent below creamery.

Print and box butters still sell at the price of corresponding grades of tub butter and are not in very good demand. For the present makers will do as well to pack in tubs for the regular trade.

Old cheese maintains its price and the volume in reserve is very small. It looks as if the old make would all go out at close to top price before the new is plenty enough to take its place. The country markets throughout New York State and Vermont report cheese of all kinds in light supply, the new make being late in putting in its appearance on account of the backwardness of the pasture season in Northern localities. New cheese brings about 15 cents below old cheese.

Southern vegetables still hold the field, although some native truck is beginning to crowd in. New asparagus, rhubarb and spinach from nearby points bring good prices. Fancy asparagus sold this week at 75 cents per bunch but showed signs of working lower. As a sample of Southern produce, choice string beans sold at 20 cents per quart, turnips 20 cents a bunch, and beans 25 cents a bunch.

Game is nearly done. Quail and some other birds went out May 1. Moose steak may still be had at 30 cents per pound. With the departure of game, squabs and broilers come forward, squabs bringing \$4 by the dozen. South Shore broilers sell at 32 cents per pound. Nearby fowl sell at 18 to 22 cents per pound, which is unusually high for the season. Turkeys sell at 25 cents to 28 cents per pound, and cold-storage chickens at 20 to 25 cents. Ducklings bring 35 cents per pound and green geese 20 to 22 cents.

Unfortunately these high prices do not by any means go to the producer, and dealers ask about the same from day to day what over the wholesale prices may be. If they have a chance to buy cheap they put the difference in their own pockets.

most profitable grown in the vicinity of large Northern cities. It is still a paying crop in forcing houses, but not especially so as a field crop.

Old native onions are still very high and the prospect is that they will finish up without any special decline. Southern stock, with Bermudas and Egyptians, and gradually taking their place at this season. Old cabbage has behaved very well of late, prices having recovered considerably. New Southern cabbage is in the market and becoming plenty. Considerable outdoor crops, mostly from Pennsylvania, is on sale, also native hothouse cress. Native spinaches, chiefly from around Providence, R. I., bring \$1.25 per bushel. Turnips maintain the improvement noticed for the past month or two and bring prices relatively higher than potatoes.

Potatoes themselves show no improvement, although the undertone is steady, holders insisting on full quoted prices, which ought to be low enough to satisfy a reasonable buyer. No quotations above 33 cents per bushel are heard of in large quantities. New potatoes from the South bring 85 cents per barrel.

The Retail Markets.

After the Lent and Easter season there is usually considerable increase in the buying of seasonal table luxuries. This year dealers complain that trade has been rather lighter than usual for the time of year, but that some gain has been noted compared with the preceding weeks.

Some of the quotations may be of interest as showing how much consumers pay above the going wholesale quotations. Beef quotes at about 32 cents for rump and 25 cents for best round. Choice roasting pigs bring \$2.25 each. Fish are in rather light supply, and include some of the high-priced luxuries like Penobscot salmon, at 75 cents per pound, and New Jersey mackerel at 60 cents each. Shad brings 25 cents per pound. Lobsters continue high on account of the general scarcity, selling at 22 cents. Frog-legs are in limited demand at 40 cents per dozen.

In the fruit line, Florida melons are quite a luxury at 40 cents each but considerably cheaper than hothouse melons at \$3 each. California cherries are on the market earlier than usual and fairly popular at 40 cents per pound. California oranges have been sold at an average of 35 cents per dozen, very nice ones, choice, sweet and without seeds. Strawberries are now plenty and the best bring only 30 cents per quart with poorer ones selling as low or lower than natives when in season.

Southern vegetables still hold the field, although some native truck is beginning to crowd in. New asparagus, rhubarb and spinach from nearby points bring good prices. Fancy asparagus sold this week at 75 cents per bunch but showed signs of working lower. As a sample of Southern produce, choice string beans sold at 20 cents per quart, turnips 20 cents a bunch, and beans 25 cents a bunch.

Game is nearly done. Quail and some other birds went out May 1. Moose steak may still be had at 30 cents per pound. With the departure of game, squabs and broilers come forward, squabs bringing \$4 by the dozen. South Shore broilers sell at 32 cents per pound. Nearby fowl sell at 18 to 22 cents per pound, which is unusually high for the season. Turkeys sell at 25 cents to 28 cents per pound, and cold-storage chickens at 20 to 25 cents. Ducklings bring 35 cents per pound and green geese 20 to 22 cents.

Unfortunately these high prices do not by any means go to the producer, and dealers ask about the same from day to day what over the wholesale prices may be. If they have a chance to buy cheap they put the difference in their own pockets.

Provisions More Plenty.

The beef market holds quiet at the advance level maintained the past few weeks, with sales moderate. Some grades show a slight decline, amounting to one-half cent or thereabouts. Veal tend decidedly lower in response to the heavy receipts in markets all over the country. Western and New York markets show greater decline than Boston. Spring lambs are also more plenty with prices tending moderately lower. Western mutton, yearlings and lambs are in large supply, but prices hold fairly well.

Western Potato Men Discouraged.

Colorado potato growers are reported much disengaged over the persistent low prices of potatoes. It is said that carloads shipped from that section have caused the producers to lose as much as \$60 per car. The price of 15 cents per large sack hardly pays the farmer for sorting and soaking and taking to the station, the cost of seed, labor and production being a total loss to the grower.

Some farmers are slicing the potatoes and feeding them to livestock. It is said also that some farmers in New York State are feeding potatoes freely to stock, and that some are even spreading them on their land for fertilizer, but as potatoes will not rot quickly unless first frozen, an application of this kind is late in the season would be of small use. The Colorado potato growers talk of cutting their acreage down at least twenty-five per cent. this year, but little talk of this kind has been heard in the Eastern sections, many growers appearing confident that high prices will return again this year.

Owing to the special demand by a certain class of trade for Long Island potatoes, they bring 65 to 75 cents per bushel, while similar stock in Michigan sells at 12 to 15 cents. To be sure, the Long Island potatoes cost more to grow, more fertilizer being used and higher-priced land, but without doubt the margin of profit is in favor of the Long Islanders.

Maine farmers are doing a little better than those in Michigan. Choice Green Mountain stock sells at 30 cents in New York, but prices are proportionately lower in bulk or by the bag. The shipping price in Maine is 50 cents, with the starch factories paying only 30 to 40 cents per barrel.

Planting in Maine has hardly yet begun, but is in full force in the New York and Michigan districts. Indications are that plenty of potatoes will be planted this year all through the potato-growing region.

Backward Condition of Crops.

Farm and field work has progressed rapidly, but vegetation is still being held back by unfavorable weather conditions according to J. W. Smith of the New England Weather Bureau. A general warm rain is greatly needed all over the district. The recent frosts have caused but little damage to fruit buds, but some reports of trees being killed by mice during the winter have been received. Forest fires are reported from southwestern New Hampshire, with much damage resulting to forests. While the season is considered by most our-

respondents to be early, vegetation is about a week later than usual.

In northern portions ground preparation, fertilizing, plowing, harrowing, etc., is continuing, with some wheat and oats already in. High winds have somewhat hindered sowing. In central portions winter grain seems to be in good condition. Spring rye has been sown, oats are up in the south and the ground is being prepared for corn.

Grass and clover look well and have good color, but need rain. Pastures are fairly good, and, in many sections, there is abundant grazing for stock.

Fruit buds are coming along slowly in northern sections, while in the south cherry and plum trees are in blossom. Peach buds which had advanced rapidly under the influence of the recent warm weather, have been checked by the cool temperatures of the past fortnight. This is considered to be of benefit, inasmuch as it will lessen the probability of damage from late spring frosts, should any occur. Of small fruits, some strawberry beds are commencing to blossom and currant and berry canes are beginning to leaf out.

Potato planting is about completed in the extreme Southern portion and in progress in others; early peas are up in some places to six inches, and asparagus setting has begun. Gardening is under way throughout the district, although in Southern sections it is advancing to a finish.

Tobacco beds are in good condition and well advanced, and setting in some places will be early. Reports indicate an increased acreage of tobacco put out this season.

Literature.

Those who enjoy out-door existence—the wild freedom of the forest and stream, will like "Silver Bells," and those who have been in some monasteries in France, "grant me that today I may be of some use to some one." If God, for our good, sees it to do us all else—may he, as his best gift of all, grant us our fellow-men before we go hence and are no more seen.—Cecil Farren.

He wants us to live hope, but hopes to impossible without faith. He wants us to love him supremely, but one cannot love a God he distrusts. He wants our obedience, but it is folly to speak of obeying one you deny. He wants our service, but no one will serve a God he distrusts. Thus faith is back of all God seeks to develop in this life.—W. H. Griffith Thomas.

"Love does not aim simply at the conscious good of the beloved object; it is not satisfied without perfect loyalty of heart; it aims at its own completeness.—Romola.

It is nothing to a man to be greater or less than another, to be esteemed, or otherwise, by the public or private world in which he moves. Does he, or does he not, behold love and live the unchangeable, the essential, the divine—George Eliot.

"The immortal soul must give itself to something that is immortal. And the only immortal things are these: "Now abideth faith, hope, love, but the greatest of these is love."—Henry Drummond.

"... When you find yourself, as I dare say sometimes do, overwhelmed as it were by melancholy, the best way is to go out and do something kind to somebody or other.—John Keble.

"... Thank God every morning when you get up that you have something to do that day which must be done, whether you like it or not. Being forced to work, and forced to do your best will breed in you temperance, self-control, diligence, strength of will, content and a hundred virtues which the idle will never know.—Charles Kingsley.

"... One of the blessed, unending needs of heaven must surely be the need of giving forth into other lives the blessedness which God has poured into ours.—Lucy Larcom.

Popular Science.

The moon is usually supposed to have solidified from the center of the nebula, but lunar photographs have convinced two leading French astronomers that the surface hardened first. This view modifies various theories.

"... An outbreak of twelve cases of small-pox at Newcastle, England, last year has mystified the doctors. No ordinary course of infection could be discovered, but it has been found that on the days when eleven of the patients probably contracted the disease the wind was blowing from one or the other of two small-pox hospitals—one about a mile away, the other about two miles. It is pointed out that files, a post of hospital, may be carried long distances by the wind.

"... The picture telegraph of Dr. Korn of the University of Munich has been so perfected that it reaches a conclusion that solves all difficulties. The book is dramatically entertaining throughout and has many unexplained situations, while its descriptions of fishing and hunting, both in Newfoundland and in the New Dominion betray the ardor and knowledge of the true sportsman. (Boston: L. C. Page & Co.)

An appropriately named volume is "An American Abelard and Heloise," by Mary Ives Todd. The heroine has the same name as that borne by the famous religious who has come down to us from the past, and she has a love story as touching as that of her prototype.

The hero is a clergyman of today, who has an admiring fashionable congregation, composed mostly of impressionable women, but he has advanced ideas that are quite beyond their reach. The abuses in church and State are dealt with in the end and Heloise sacrifices love to duty.

She is an American girl of the kind that is above worldly frivolity. She is finely depicted, and so, indeed, is her ideal lover. All will not agree with them in a desire for a new religion, "based on knowledge, not ignorance—on truth, not fiction—on love, not fear," for many are satisfied with the present condition of the Christian faith, and the efforts that are being made within its folds for the betterment and advancement of the human race.

The lovers are uncommon types, and their separation in the end for three years is in harmony with the restorative views of the woman if not of those of the man in their entirety. The story is one that will appeal to many who are not anchored to any existing creed. (New York: The Grafton Press. Price, \$1.50.)

Clara Driscoll has chosen Texas as the scene of a story called, "The Girl of La Gloria." Its local color is excellent and the heroine, the heroine, is a true type of a Mexican girl. She comes of an old family whose original possessions became the property of Americans, and she herself is beloved by a New Yorker, who finds in her dark-eyed Spanish beauty a fascination that no other woman could exert. There is much historical interest in this romance and the people of all races who figure in it, possess marked individuality, while the incidents are highly picturesque and exciting, without being sensational. The love story is almost as sad as that of Romeo and Juliet. The last of the Rodriguez dies through her devotion to her lover, and in her passing the mournful tradition of her house is realized.

The tale is unconventional and is constantly alluring. (New York: G. P. Putnam's Sons. Price, \$1.50.)

Clara Driscoll has chosen Texas as the scene of a story called, "The Girl of La Gloria." Its local color is excellent and the heroine, the heroine, is a true type of a Mexican girl. She comes of an old family whose original possessions became the property of Americans, and she herself is beloved by a New Yorker, who finds in her dark-eyed Spanish beauty a fascination that no other woman could exert. There is much historical interest in this romance and the people of all races who figure in it, possess marked individuality, while the incidents are highly picturesque and exciting, without being sensational. The love story is almost as sad as that of Romeo and Juliet. The last of the Rodriguez dies through her devotion to her lover, and in her passing the mournful tradition of her house is realized.

The tale is unconventional and is constantly alluring. (New York: G. P. Putnam's Sons. Price, \$1.50.)

A tale founded on fact that every lover of marine adventure will appreciate appears in "The Harvesters of the Sea," by Wilfrid T. Grenfell, member of the Royal College of Surgeons. The author has had twenty years experience with the deep-sea fishermen, and he describes their perils and trials on the Dogger Banks in the North Sea and off the coast of Newfoundland and Labrador, with a keen appreciation of their heroic character in the midst of hardships and privations. His narrative is both spirited and truthful, and the toilers of the sea of the present time are shown to have a courage that when contrasted with the sailors of old, who never seemed to face death in the effort to save human life. Thought in the form of a story, this book furnishes a great deal of valuable information, especially concerning the philanthropic measures that have been taken to make the lot of the fisherman less onerous. Dr. Grenfell has used the results of his singular experiences with the fishermen with a skill

that shows his heart was in his work and he threw much needed light on the labors of the harvesters of the ocean on both sides of the Atlantic. (New York: Phoenix H. Novel Company. Price, \$1.00.)

that shows his heart was in his work and he threw much needed light on the labors of the harvesters of the ocean on both sides of the Atlantic. (New York: Phoenix H. Novel Company. Price, \$1.00.)

Gem of Thought.

"...Great truths are generally brought, not by chance....God can do far more than what you need to do, but if it is not possible to take hold by the hand, it is possible to seek for the truth to take hold."—A. J. Campbell.

"...A good book is like a happy face. It bears remembrance. The more you study it the better you like it. It is an inspiration when present and a pleasant memory when away."

"...Companions will do more than pleasure. The kindly warmth of the sun made the traveler safe off his track, while the cutting wind could not tear off his coat, but made him blind to clear about him; so love does more than wrath.—Spurgeon.

"...O my God, grant me" (no they are taught to pray in some monasteries in France), "grant me that today I may be of some use to some one." If God, for our good, sees it to do us all else—may he, as his best gift of all, grant us to our fellow-men before we go hence and are no more soon.—Cecil Farren.

"...He wants us to live hope, but hopes to impossible without faith. He wants us to love him supremely, but one cannot love a God he distrusts. He wants our obedience, but it is folly to speak of obeying one you deny. He wants our service, but no one will serve a God he distrusts. Thus faith is back of all God seeks to develop in this life.—W. H. Griffith Thomas.

"...Love does not aim simply at the conscious good of the beloved object; it is not satisfied without perfect loyalty of heart; it aims at its own completeness.—Romola.

"...It is nothing to a man to be greater or less than another, to be esteemed, or otherwise, by the public or private world in which he moves. Does he, or does he not, behold love and live the unchangeable, the essential, the divine—George Eliot.

"...The immortal soul must give itself to something that is immortal. And the only immortal things are these: "Now abideth faith, hope, love, but the greatest of these is love."—Henry Drummond.

"...When you find yourself, as I dare say sometimes do, overwhelmed as it were by melancholy, the best way is to go out and do something kind to somebody or other.—John Keble.

"...Thank God every morning when you get up that you have something to do that day which must be done, whether you like it or not. Being forced to work, and forced to do your best will breed in you temperance, self-control, diligence, strength of will, content and a hundred virtues which the idle will never know.—Charles Kingsley.

"...One of the blessed, unending needs of heaven must surely be the need of giving forth into other lives the blessedness which God has poured into ours.—Lucy Larcom.

Curious Facts.

"...T. S. Terry, a business man of Down, Kan., forwards a postal card on which are written 4,000 words; or, 17,000 letters, all done with a common pen and without the aid of a magnifying glass. One sentence of ten words is repeated 400 times, and each sentence is about an inch long and about one-tenth of an inch high. The letter is scarcely legible without a glass.

"...No, you can't get it to ship to England," said T. H. Anterbury of Liverpool, who is president of the American Tobacco Trust. "The export of tobacco strips is practically at an end. The exporters cannot afford to ship the strips when the untemmed leaf can be entered at English ports at six cents a pound. The leaf tobacco will not lose the business either. The rate in that direction is 10 cents a pound."

"...The pinhole aperture of the vacuum tube is covered with wax or rubber. The light ray from the aperture falls upon a sensitive film wound upon a cylinder, and as this cylinder and that of the transmitter are moved in unison, the light and shade of the original picture are reproduced in proper place on the second film, giving a new photograph accurate in minute detail.

Curious Facts.

Poultry.**The Houdans.**

The French fowls are classed as Hounds, Le Fleche and Crevecoeur. The two latter are not at all popular in this country, and are in fact, very rare. Specimens of them are seldom seen, excepting at our fairs, and not often then. Not so with the Hounds. Although not so common as the Leghorns or Wyandottes, no community is well supplied without a few flocks, and a show room always has a good selecting of them. At the same time, they are not very common. A person who has a good yard of them always has calls for eggs at fancy prices. They are just rare enough so that they will be sought for, and once kept will be always highly valued and have a good name. The accompanying cut well represents a pair of Hounds.

They are a superior table fowl. Many regard them as the best fowl for flesh that is raised, also almost equal to the Leghorns for eggs, which are larger than Leghorn eggs.

There are very few fowls which lay so large an egg. The Black Spanish will do nearly as well. The Houdan is called by many the best general purpose fowl known.

The body is of excellent form and in the market presents fine appearance. It is only necessary to show its five toes to get it a quick sale. The Hounds are known as non-sitters. I have kept them for seventeen years, of the finest blood, and do not think I have had one case a year, of one wishing to sit, but they have been persistent layers.

The color of the Houdan is black and white mottled, the black predominating during the first year. They grow lighter with age. There is a crest on the head and a muffle under the bill. This feature renders them somewhat objectionable to the farmer, who wishes to let them range the fields, exposed to hawks, but with a little attention this is of small account. One of the principal features of the Houdan is the five toes instead of the four, an extra toe in the rear of the foot, usually turning upward, always found on a fine bred Houdan. It is of no earthly use to the fowl, but is a race characteristic, and for that reason can not be dispensed with. The color of the legs is black and white mottled, and the skin is flesh color.

In selecting Hounds, the reader should avoid any red-tinted feathers in the plumage, and always look for a good crest, broad fifth toe and V-shaped comb. The standard weight of Hounds is: Cook, seven pounds; hen, six pounds; cockerel, six pounds; pullet, five pounds. G. M. J.

New York.

Day's Work of a Poultry Farmer.

My first work early in the morning is to attend to the incubators. I always learn the temperature of the machine, and, if needed adjust the regulator and lamp flame before I open the machine. If the heat has varied from the 100 degree mark, and is much too low, I do not open the machine until night. This gives the eggs a chance to make up the lost heat. If I find the heat too high I cool the eggs down to about 95°. I reverse the egg trays each time I turn the eggs morning and night.

THE BROODERS.

I then attend to the chicks, those that are in the brooders first. I let the chicks out of the brooder, and then see what is the temperature of the brooder. I then adjust the lamp flame high enough so that it will make up for the heat that the chicks had generated when they were all in the brooder during the night. The bulb of the thermometer is held on a level (until the chicks are three weeks old) with their backs in taking the temperature of the brooder I keep the heat 90° to 98°.

I FEED THE CHICKS.

for the first three weeks, on either the regular prepared chick feed or one made forty per cent hulled oats, forty per cent cracked wheat, ten per cent cracked corn, five per cent beef scrap and five per cent grit. I feed this dry in winter and only a little at a time. The chicks that are old enough to be without a brooder I feed equal parts hulled oats, cracked corn and whole wheat, if it does not stain. I keep the doors open to the chicken houses until the last feeding at night.

THE HENS.

After the brooders and chicks have been attended to I feed the hens. The first feed for five mornings of the week is oats nine parts and ground-beef scrap one part, mixed together and fed dry in troughs. The other two mornings I feed a mush made of equal parts wheat bran, middlings, corn meal and beef scraps, mixed into a stiff dough. I leave the henhouse doors open all day unless it storms.

AFTER THE FIRST FEEDING IS FINISHED

I give them all fresh water. I see that all the drinking dishes are clean and place them where they will collect as little filth as possible. By this time with the chores it will be about 9 A. M. Then began feeding the chicks again and see what is the temperature of the brooders. If the sun is shining the brooders are liable to be too warm, and if they are I turn the lamp flame.

THE WEEKLY SPRAY.

If the day is Friday I clean the brooder and house out and spray them all over inside with a solution of water ninety-eight parts and creosol two parts, and put in new litter for them to scratch in. At 11:30 A. M. I feed the chicks again and also see what is the heat of the brooder.

AFTER DINNER

I visit the incubator room and see if the machines are working all right. At about 2:45 P. M. I feed the chicks again, and as the day is growing cool the brooders are liable to be low, and if so I turn the lamp flame up enough so as to keep the heat at the desired point. After this feeding is done I mix the next feed for all the chicks that are over six weeks old. A meal of equal parts wheat bran, middlings, ground oats, yellow corn meal and ground beef scraps. I mix this in a stiff dough. At four o'clock or half past I feed the hens and gather the eggs for this feed. I have equal parts yellow corn and wheat. Of this I feed one quart to eleven birds, the same amount I fed of oats in the morning. If the weather is pleasant, the night feed I scatter around the yards; if stormy, I feed in the houses.

I MARK THE EGGS

from each hen and if there are any broody hens I shut them up in the crates I have for that purpose in the henhouses. I never shut them up out of doors, as they are liable to take cold. After the hens are cared for I trim and fill the brooder lamps and feed the little chicks for the night. I feed them all they will eat up clean this feed, so that they have eaten each previous meal of the day as though they were hungry. If not I count the feed until they appear to relish it. Better feed too little than too much. About half



PRIZE PAIR OF HOUDANS.

1st Cook in Pan,
1st Pullet at
Herald Square 1905
Bred & owned by
West Springfield Poultry Yards
West Springfield Mass.

an hour before sunset I feed in troughs to the chickens over six weeks old the mush that was mixed about 4 P. M. I have this feed as near as I can one-third of their day's rations and feed all they will eat up clean. At this feeding I shut the large doors and leave the small doors open so they can go in and out of the house until dark. I now care for the incubators.

I ALWAYS TURN THE EGGS
before I fill and trim the lamps, as the hands must be free from kerosene oil when I touch the eggs or I am liable to spoil the hatch. After the chicks and hens are in for the night I close the small doors so they can't get out until they are let out in the morning. And this precaution also prevents any animal from getting in and killing the birds after the chicks are in the brooders for the night. I go to each brooder and see that they are not too warm. As a general thing I have to turn the lamp flame down, as the heat from the chicks' bodies will raise the temperature of the brooder from 9° to 15°, thus you may judge how important it is that the brooders should be cared for at this time.

BEFORE I RETIRE
for the night I usually visit the incubator room and see that the machines are right, and also go out doors and take a view of the brooder houses and see that everything is safe for the night.

I am often asked what breed of fowls are the most profitable. In answer to this would say it depends upon what your market demands when you sell your product. My choice of breeds are the Rhode Island Whites as I am the originator of this breed, but the Wyandotte, Plymouth Rock, or Rhode Island Reds are good business breeds and will yield a handsome profit if properly cared for. J. ALONZO JOOY.

Rhode Island.

Fish for Poultry.

In preparing fish for fowls we prefer to shop them up raw, add a very little salt and pepper and feed in small quantities in connection with grain and vegetables; but for young chicks it is advisable to boil before feeding and simply open the fish down the line of the backbone, leaving to the chicks the rest of the task. This food should be given to layers sparingly, or we may perceive a fishy smell about the eggs, especially if the fish is fed raw. All who will do well to try this diet for their flocks, and note its effect on egg production. We have always marked a decided increase in the rate of laying following an allowance of fish fed in moderate quantities.

There are hundreds of our readers who live near or on rivers or lakes, or the sea-shore, where they can get considerable oily fish, such as are either too small to market or are cast out as unfit to be sold. Hundreds of bushels of these fish are annually used for manure, either composted or plowed in direct. In this connection they are very good, though many a basket full could be put to better account by feeding them to your fowls; and they are very fond of this diet, though care must be taken not to feed it exclusively, for it may cause extreme laxity.

A Great Season for Storage Eggs.
The enormous arrivals of eggs have continued, last week being a record-breaker for the season. The storage men have taken hold with courage and have put away whatever stock the consuming market did not need. The result is that the storerooms are rapidly filling up. In fact, their capacity must be nearly approaching its limit. The New York Produce Review estimates the stock at Chicago, New York, Boston and Philadelphia at more than half a million cases, which compares with less than two hundred thousand cases at the corresponding time last year. If this reckoning is correct, egg storage has gone on at a rate somewhat dangerous for the future of the market. Not only is there considerable risk for the storage men losing money by the operation, but it looks as if the storage outlet would be pretty nearly closed in May for the lack of room to store the eggs. Such a condition would tend to bring about lower prices during May and the balance of the summer, and some dealers express the opinion that a drop is quite likely to take place. Much of the buying for storage has been done by the large concerns, like the Armour's and Swift's who usually know what they are about and not only after careful study of the situation. It is evident that these people believe prices will not go much lower, else they would have waited before putting away so much stock. But if arrivals continue at anything like the present rate it is difficult to see who will buy them all at present prices.

Egg Prices Steady.

Both receipts and demand are larger than last week, hence the price situation holds about steady. Some Western markets show lower quotations and this condition is reflected in the price of eggs shipped here from a distance. These already begin to show the effects of warmer weather and do not average so good as they did a month ago, but nearby eggs hold their price well at recent quotations. Most of the eggs that will go into storage have already been put away, and eggs which are now used for that purpose are not of so good grade as the April

packed, but they are selling a little cheaper, the bulk of sales being at 18 cents. The quantity in storage is enormous and there is considerable anxiety in the trade as to the outcome. The free buying for export has put money into the pockets of producers by keeping the price at a good fair level notwithstanding the heavy production.

According to current estimates, the cold-storage facilities for eggs are already quite fully occupied. Eggs are coming forward nearly as fast as ever, and the conundrum is what will be done with them when the storage people cease to buy?

Some dealers predict lower prices for May. It is fortunate for the cold-storage establishment that the bulk of the eggs have been put by in April, when the weather was cold and the quality of those arriving from distant points excellent. Now that the weather is warmer in the West and Southwest, many of the shipments above show signs of heat, requiring careful inspection, and assorting and are considered generally one-third of that amount will do on new land. The next best fertilizer is bone and ashes, one ton of bone and two tons of ashes per acre. Put the plant food on top of the furrow and harrow it in.

If a large field is to be set make rows 3 to 4 feet apart, set plants eighteen inches in the rows. In August place the new plants about six inches apart, till the width of the row is twenty inches, then cut off all runners beyond this width. For a small seed plants in three rows one foot each way; then leave a path thirty inches wide and set three more rows. Keep all runners out.

Every runner you cut off causes the parent plant to send out a side shoot, so at the end of the season they will be very large plants, and will bear fruit from a pint to one quart each of large fruit. When setting plants have the crown just level with the top of the soil. Be sure to press the earth well about the plants.—S. H. Warren, Weston, Mass.

ten to fourteen days later. In the same way the codlin moth can only be controlled by spraying with arsenites, which may be added to the second Bordeaux application for both, shortly after the blossoms fall.—W. Stuart, Burlington, Vt.

When and How to Plant Strawberries.

Early Spring, just as soon as ground can be easily worked, is the best time. If possible give them new land just cleared from the woods. The soil should be worked deep, keep the subsoil where it belongs. If planting on old land, apply fifteen to twenty cords per acre of stable manure—one-third of that amount will do on new land. The next best fertilizer is bone and ashes, one ton of bone and two tons of ashes per acre. Put the plant food on top of the furrow and harrow it in.

If a large field is to be set make rows 3 to 4 feet apart, set plants eighteen inches in the rows. In August place the new plants about six inches apart, till the width of the row is twenty inches, then cut off all runners beyond this width. For a small seed plants in three rows one foot each way; then leave a path thirty inches wide and set three more rows. Keep all runners out.

Every runner you cut off causes the parent plant to send out a side shoot, so at the end of the season they will be very large plants, and will bear fruit from a pint to one quart each of large fruit. When setting plants have the crown just level with the top of the soil. Be sure to press the earth well about the plants.—S. H. Warren, Weston, Mass.

Fresh Fruit.

The apple situation shows no marked change, chocolate fruit being in steady demand as quotations last given. Receipts during the past week were somewhat larger than for the preceding week, but the per cent of good fruit was limited. Some strictly fancy lots sell higher than quotations given in our market columns.

Cranberries are in very light supply and demand out very little figure in the market. Southern strawberries mostly from North Carolina are in heavy supply at very low prices, ranging from five to twelve cents in large lots. Bananas continue very plenty and cheap. The price by the single bunch for large-sized green fruit is in the neighborhood of 61, but in larger lots much lower prices have been quoted.

The stock solutions were made so that each gallon of the solution represented one pound of the copper sulphate or of the lime. The formula used in making up the Bordeaux was that known as the 1-10 formula,

SPRAYING WITH BUCKET PUMP.

This is an excellent outfit for the garden and the city yard.

that is, one pound of copper sulphate and one of lime to every ten gallons of water. Hence in making up fifty gallons of Bordeaux, all that was necessary was to transfer five gallons of each of the stock solutions to the dilution barrel, and fill them up with water to the twenty-five gallon mark.

Some authorities recommend a stronger stock solution of copper sulphate than that mentioned, that is, instead of one pound to a gallon, two pounds are used; and others advise a saturated solution, claiming for the latter that when such a solution is used no change in its strength can occur by evaporation, as it is always at the saturation point. A saturated solution contains about three pounds of copper sulphate to the gallon. If the weaker standards are used the only precaution necessary to observe when carrying over a stock solution is to mark the height of the liquid in the barrel and restore it to its original volume before using.

The time of application is not always wisely chosen. For example, the first spraying for apple scab should always be made before the buds have swollen very much. A spraying at this time will ordinarily do more toward ensuring freedom from scab than subsequent ones. The ultimate success is, however, dependent on one of two subsequent ones, any one shortly after the blossom fall, followed by another from

2,201,016 barrels, including 685,354 barrels from Boston, 635,047 barrels from New York, 304,175 barrels from Portland, Me., 267,581 barrels from Montreal, 264,275 barrels from Halifax, 19,674 barrels from St. John, N. B., 8900 barrels from Wolfville, N. S., and 24,108 barrels from Annapolis, N. S. The shipments for the same time last year were 3,082,720 barrels; in 1902, 2,461,480 barrels.

Owing to weather being too cold and dry in Florida, the tomato, bean and peach crops of the west coast are reported reduced about one-half of the crop in favorable seasons. The strawberry crop is expected to be good this year.

Experts believe that a great naval battle in the Far East may not occur for some weeks. Possibly Togo will try to worry and destroy the enemy by degrees without loss of his own ships. The Japanese are reported to be recovering several of the Russian war vessels sunk at Port Arthur. The report that the Russian fleet is to make for Petropavlovsk instead of Vladivostock is not credible. The supposed destination is a small harbor on the east coast of the Kamchatka Peninsula, and is 1,000 miles sailing distance from Vladivostock. As a base, it is in no less for attacking the Japanese communications; the Russian fleet is to sail on an entrance to Vladivostock, and the chances at the latitude of the Strait are not hopeful. To us it would mean a long detour through the Pacific, and the limits on the carrying capacity of the fleet would make it little better prepared for a "dash" from that port than from Nanking Bay.

—The Salina Railroad, one of the most gigantic and important works undertaken by the French Government, a road that is to connect Oran and Timbuctoo, is nearing completion. The line from Sals to Beni Utif is now in operation, both for freight and passenger business. The construction of the road has been a most difficult task. A great many abysms had to be crossed, long tunnels bored and many hills had to be blasted. The construction expenses have so far amounted to \$60,000 per kilometer (three thousand feet), and the last part of the road may prove even costlier. Fortified stations have been established along the route at intervals of twelve miles. The road is narrow gauge, except the line from Sals to Oran, which is of standard gauge.

—A miniature Coxey's army is forming among the striking army boot workers in Northamshire, England. It is proposed to march on the War Office in London and lay the men's grievances before the officials. A band of music has been engaged to accompany the strikers, whose march will probably occupy a week.

—Charles Hatfield, a "rain-maker," who has been working since Dec. 15 last to produce eighteen inches of rain for Southern California by May 1, on a pledge of a number of Los Angeles merchants to pay him \$1000 if he succeeded, has completed his demonstration and has been paid a large proportion of the sum promised. The remainder of the amount guaranteed him will be paid shortly, it is said. The fall of rain in Los Angeles during the season ending May 1 last was 19.96 inches, which is above the normal annual precipitation for that section. Hatfield established his "rain-making" plant at Altadena, in the foothills of the mountains, some twenty miles from Los Angeles, on Dec. 15, and the amount of rainfall from that date in the immediate locality of his place has been 22.45 inches. Hatfield's method is a generation of gas and its discharge into the atmosphere from a chimney, which has the result, he claims, of attracting forces of nature which compel moisture and clouds to precipitate in the shape of rain.

Of all inventions that have come to lighten the burden of heavy work incidental to farm life, none is valued more highly than the cream separator. The "De Laval" was the original separator and has always maintained a reputation for being a unique and first-class improvement. For efficiency and durability it ranks high among its many competitors and proves itself a rare boon to its possessors. The De Laval replaces the wearisome drudgery of former years with speedy and satisfying service and fills every need in the line of dairy industry.

GILBERT CLUB" PURE RYE

For medicinal uses.
TASTES BEST and COSTS LESS than most other brands not good.

EIGHT YEARS OLD, PURE, RIPE MELLOW.

4 Full Quarts sent to your address, Express prepaid.

For \$3.00

Doctors say: Gilbert Club, Pure Rye for Medicinal uses and Emergency Cases is the best. We ship in plain sealed boxes with directions to insure contents.

Send for our Illustrated catalogue and price list of wines and liquors.

Chas. Gallagher & Co.

207 CONGRESS ST., BOSTON, MASS.

BOSTON.

FIELD & COWLES Insurance

No. 85 WATER STREET

BOSTON

MASSACHUSETTS PLOUGHMAN
THE JOURNAL OF AGRICULTURE

TELEPHONE NO. 3707 MAIN.

Tech and the Merger are apparently out.

The women in the Chicago strike are hardly fair.

Stop singing "Bedelia." It appears to be a costly amusement.

Adulteration and appendicitis are said to be twins. They go together.

Do not look up money for labor unless dollar for dollar is in plain sight.

When women clothe themselves on sixty-five, will Edward Atkinson be alive?

Beautiful fan effects are to the fore, but they do not include the fans on the baseball grounds.

Lewis E. Dinsmore was an engaging young man, but three years on Deer Island may dim his fascinating qualities.

It has been pretty plainly shown lately that jurors do not keep the secrets of the jury room, at least in New York.

We are not anxious to have that naval fight in the Far East come off, but we have been a long while waiting for it.

The firebug has been so active in our city that there is a well-founded suspicion that he can multiply himself indefinitely.

The police have had a hard time listing the voters of Boston, but they were, no doubt, strenuously attentive to their duties.

By-and-by we shall learn how to build houses large enough for legal purposes by looking into the future far as human eyes can scan.

Belmont Park cost in the neighborhood of \$3,000,000. This was a tidy sum for August to spend on a gift to the lovers of horse racing. More speed to him!

With no less than 127 Massachusetts village improvement societies, the farmyards, lawns and village places in the old Bay State should fairly shine.

The reduction of Kurokutkin's salary to \$54,000 a year will not evidently make him a poor man. Most of us could get along comfortably on the sum designated.

The members of the Y. M. C. A. do not want any players in theirs, and yet Corbett, Gentlemen Jim, is a good man if not a good actor. Some people are so particular.

The way of matrimony is not all sunshine for comparatively poor girls who wed prospective rich husbands. Love in a cottage is often happier than love in a palace.

The services of the Rev. Rosen Thomas have been well rewarded. The sincere recognition of his thirty years work is, however, more valuable than the princely gift.

General Linevitch had a kissing party, where is that party now? If his soldiers are like the majority of men they would rather have kissed some one else besides their commanding officer.

High priced help requires a high grade employer to get back the money that is paid out for labor. An hour's time wasted means more than it did when good hands could be had at \$12 a month.

Chaplain Hale, of the United States senate is no bigger man than Dr. Hale of Boston, as his welcome home has abundantly demonstrated. He is one of the prophets that is honored in his own country.

To increase the farm income the young man's way is to earn more, while the old man's plan is to spend less. The thrifty farmer's wife combines both ideas and hits the golden mean of farm prosperity.

Innocent or guilty, Nan Patterson has suffered more mental agony than usually falls to the lot of girls who are following the pace that she struck in a vain and silly life, the end of which is usually disaster or some kind. The gaiety that goes with feminine dishonor is generally appalling, though it may not always point to capital punishment.

At the funeral services of Joseph Jefferson the Rev. Mr. Horton's tribute was a modest and manly one, in which superiority was claimed for no honest profession by which man earns his daily bread. The true Christian is one who loves his fellow men, and Mr. Horton pointed him out in the person of the lifelong actor, who made friends among both the humble and the exalted.

The immigrants are pouring into this country. Twenty-six thousand arrived in New York this week. Well, we suppose we can stow them away somewhere on this vast continent, though they must remember that they cannot pick up gold on our thoroughfares. They've got to dig for it. In fact, if most of them would go into the country to use the shovel and hoe, the immigration question and the problem of farm help would both be nearer solution.

The oleo interests receive another hard blow through the decision of the Pennsylvania Supreme Court upholding the oleo act of 1901. It restricts the sale of oleo colored to resemble butter. For some time past the oleo contest has gone all in one direction, like the Japan-Russia war. The dairy farmers are having the opportunity of their lives, and they have been making and selling honest butter at good prices, while the courts have been fining their oleo competitors.

The Massachusetts Dairy Bureau has been very active this year. Agent P. M. Harwood reports that about one hundred cases have been carried to court and won during the past four months, Jan. 1 to May 1, and fines aggregating \$2,000 have been collected. These cases were connected with the sale of oleo and renovated butter. The dairy bureau in Massachusetts is one of the busiest and most useful departments of the State Board. To employ a specialist pays well even to fight the oleo evil.

If Dr. Harper has really been cured of cancer by radium, we shall have a remedy for a dread disease that will be a blessing to thousands of suffering people. Of all the ills that attack our frail bodies there is nothing more painful than cancer. It is a

living death, like leprosy, which is happily rare in this country, and the discovery of radium, if it fulfills its promise, will be counted among the greatest and most beautiful discoveries of our age. Dr. Harper believes in its efficacy and so far his firm faith is undisturbed.

The State of Massachusetts has at last committed itself to a renewal of the moth campaign. But nothing can now make up for the time lost during the years the work has been stopped. At that time complete victory was in sight. Moths were so scarce that hostile critics claimed there was no reason for alarm. According to expert opinion a few years more of effort would have killed out the last gypsy moth, and quite probably the brown-tail variety might also have been destroyed. Now to all appearances the nation is saddled with both pests to the end of time, and the money that would have sufficed to destroy them will be spent over and over again merely to keep them in check.

Foresters will note with attention the progress of the extensive planting of white pine, although from a Wisconsin nursery, are of the common white pine variety, and are set on cheap stamp land. Trees and labor cost about \$6 per acre. From this investment of \$6 at compound interest at six per cent., a return at the end of forty years equal to ten per cent. yearly has been figured out at present price of pine lumber. But the estimate takes no account of other items. The average farmer would be more likely to call \$6 the value of the acre of rocky stamp land. He would pick up his trees from some open field adjoining an old pine grove. Labor he would reckon at low cost by the monthly rates, but he would add a considerable item for taxes and insurance or risk of fire, and something for annual care. But the price of good pine lumber is fast advancing, and very likely by the time newly planted groves are ready for the saw-mill the price will be high enough to offset all extras and net the planter or his son's liberal interest on the investments.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Poisonous Plants.

Hemlock or Wild Parsnip—This plant, often used by the ancients, is a familiar weed of our fence rows and roadsides. It is a rank-growing, hollow-stemmed biennial from two to five or six feet high, with large, paralell-like leaves and big clusters of small white flowers. Cases of poisoning have arisen from eating the leaves as parsnip and the roots as parsnip; and serious results have in some cases followed the blowing of whites made by children from the hollow stems. Domestic stock has been killed as a result of eating the plant, so hemlock should be extirpated as far as possible, instead of being, as it often is now, left to produce seeds, and thus propagate itself.

Cookie—This whitish, woolly annual is also a familiar weed on most farms, more particularly on wheat lands. Poisoning with this plant is generally brought about by feeding animals and poultry on the low-grade flour containing cookie seed. The weed seeds can be removed by proper machinery, but the task is not an easy one; so that poor flour often contains cookie. The United States Department of Agriculture states that as much as thirty to forty per cent. is sometimes found in European countries, but that this quality is sent out only by ignorant or unscrupulous dealers, or is intended for consumption by animals only. The simplest way of preventing this weed is that of planting only wheat seeds that are perfectly free from it.

The Death Cup—This handsome fungus (*Amanita phalloides*) somewhat resembles the common mushroom, for which it has often been mistaken. All parts of the fungus are nearly white, excepting only the top, which may have a yellowish or greenish shade. There should be no difficulty in distinguishing the death cup from the common mushroom, as it has white gills, and is usually found growing in woods or near their borders in meadows. There is no objectionable taste to warn the consumer, and symptoms of poisoning do not occur until from nine or more hours after the fungus is eaten. The death cup is the most poisonous of common fungi, and its consumption results in death in from two to four days.

Deadly Nightshade—This annual weed has drooping clusters of small, white flowers, and produces black juicy berries in autumn. Poisoning has occurred in man and in some kinds of domestic stock. Though the symptoms of poisoning by deadly nightshade are very serious, cases do not often result fatally. The plant is, as already mentioned, an annual one only, and can be eradicated by the very simple expedient of cutting down the plants before the fruit matures, so preventing propagation by seeding.

The Weather at Long Range.

The value of a fairly exact knowledge of the weather for some time in advance would be so great that it is not surprising that many attempts have been made to get useful results in this line. It must be said at the start that predictions based on plants and the various predictions that appear in almanacs published a year in advance are wholly worthless. While they occasionally hit the weather right by chance, it is only necessary to note them carefully for a few weeks to be convinced of their worthlessness. Those predictions which pretend to apply to all parts of the country are still more absurd, because the weather differs so greatly at the same time in different localities.

The only method of prediction which has received anything like scientific endorsement is that based on sun spots, and even here it must be said that the results at present are too uncertain to amount to much in a practical way. It has been found that the earth's temperatures, at least in the tropics, are higher when the sun spots are fewest, and lower when the sun spots are most numerous. It seems, also, that when sun spots are numerous there are more severe storms, drought and weather disturbances in general, and these conditions apply not only to the tropics but to the temperate regions.

The sun spots appear to occur in periods of about eleven years, that is, there is a space of about eleven years between the time when they are least numerous and the time when they are most numerous. It might seem safe to predict that years of severe changes, including cold winters, hot summers, drought, tornadoes, etc., would occur during certain years, and the records of the past show some little basis for such a theory, but there are enough exceptions to make the idea of very little practical value, and conditions alternate so greatly in different parts of the world that it is difficult to draw the line how far the changes will occur and at what time in any given locality. The experts in Washington, who have studied the subject with special care, seem to conclude that as yet nothing can be absolutely determined and that further observation and tests will be necessary before it can be decided whether any practical results can be obtained.

The School for the Blind.

The trustees of the Perkins Institution and Massachusetts School for the Blind, in the seventy-third annual report of the institution for the year ending Aug. 31, 1904, say that the school has been managed with assiduous care and commendable efficiency, that the objects for which it was established have been pursued with constant diligence and gratifying success, and that in many respects the year noted has been one of the most satisfactory in its history.

The report points out that the system of instruction and training has met with careful re-adjustment in recent years, and that every effort is made to develop the physical powers and cultivate the minds of the pupils at the same time. It calls particular attention to the value of physical training in the education of the blind, and it regards the gymnasium as one of the most important features in the plan of instruction in the institution.

Manual training here has been pursued, we are informed, with steady application, and with a view to develop the brain as well as to teach mechanical skill. The departments of literature and music have also been effectively conducted, and have greatly conduced to the welfare of the pupils.

Treasure William Eliot's report shows that there was cash on hand on

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.

The report of the devoted Director Michael Anagnos is comprehensive and highly interesting, and the allusions to notable pupils are full of food for earnest thought.

Sept. 1, 1902, \$46,000.00, with total receipts for the year of \$276,770.42. The total expenditures and investments were \$206,693 and the balance in the treasury Aug. 31, 1904, was \$16,078.31. This is in every way a commendable showing of the skillful way the finances of the institution are managed.

This, however, does not indicate that the school is not in need of further financial aid, as many people have generously supplied, for the annual income which it derives from State appropriations and from the endowment fund is not large enough to cover the cost of carrying on the work of the various departments, and it is shown that the expenditures for the year were \$76,619.75 and the receipts from all ordinary sources were \$74,000.00. This will be seen leaves a deficit of \$2,609.75, although current expenses were reduced to the lowest possible figure. This statement indicates the need of additional funds for carrying on the institution which the philanthropic should consider. It has had many generous benefactors, whose charitable efforts are commendable in detail in this clearly arranged report of the trustees. Francis H. Appleton, William L. Benedict, William Endicott, Paul Revere Frithjof, Charles P. Gardner, N. P. Hallowell, J. Theodore Heard, Edward Jackson, George H. Richards, William L. Richardson, Richard M. Sulmonall and S. Lothrop Thordike.



You Can Pump With It
and save on your water supply. Water everywhere, all you need is the means to raise it. You can pump for other uses, too. If you have a horse power and up, if you want reliable, economical power for any farm purpose, write for our Gas Engine Catalogue. CHAS. J. JASER CO., 100-8 High Street, BOSTON, MASS.



THE BEST HOMES
Find here Flowers and Vegetables, and the wonderful improvement in the varieties during the past few years have made it possible for everybody to grow the best at very moderate prices. In the following WE OFFER EXTRAORDINARY MERIT:
STRAWBERRY PLANTS.—A packet containing 100 choice varieties mixed, 10c.
INTERNATIONAL PRIZE ASTER.—30 choice varieties mixed, 10c.
Rhubarb.—20 choice rhubarb varieties mixed, 10c.
Marrow.—Small marrow, 5c.
Giant Faschle Celery.—5c.
Ohio Sweet Onion.—5c.
New Zealand Tomato.—5c.
Stone Tomato.—5c.
Giant French Cabbage.—5c.
OUR CATALOGUE of 164 pages fully describes hundreds of other varieties of Flowers and Vegetables. Also Three Grand Novelties that you can't buy elsewhere

The Markets.

BOSTON LIVE STOCK MARKETS.

ARRIVALS OF LIVE STOCK AT WATERTOWN AND BRIGHTON.
For the week ending May 10, 1905.

	Sheep	Cattle	Beeves	Pork
This week.....	3397	3596	177	52,245
Last week....	4991	3800	20,629	31,700
One year ago	3494	3245	175	24,081
Horses, 500				2922

Prices on Northern Cattle.

BEEF—Extra, \$35.75@40c; first quality, 65.35@5.50; second quality, 64.75@5.50; third quality, \$4.00@4.50; few choice single pairs, \$6.00@6.50; stock of the poorest bulls, \$2.50@2.50. Western steers, \$4.20@7.10. Cattle Sheep Suckers Hams Veal.

This week..... 3397 3596 177 52,245 2700

Last week.... 4991 3800 20,629 31,700

One year ago 3494 3245 175 24,081 2922

Horses, 500

Pork Hogs.

Far Hogs—Per pound, Western, 51@52c; live weight; shotes, wholesale—; retail, \$2.50@2.50c. 1000; country dressed hogs, 65@7c.

VEAL CALVES—\$2.60@2.70c.

HIDES—Brighton—\$1.25@1.30c; country lots, 7/8@8c.

CALF SKINS—16@18c #2 lb; dairy skins, 40@60c.

TALLOW—Brighton, 3@3.50c #2 lb; country lots, 26@28c.

PELTS—40c.

Cattle Sheep. Cattle Sheep.

Maine—At Brighton, O. H. Forbush 20 W. J. Crouse 21 At Brighton. F. L. Libby 20 J. S. Henry 6 E. L. Libby 20 R. Connors 60 Fazington L. 15 G. C. Hanson 15 50 S. D. Deasey 20 D. Simons 20 A. D. Kirby 10 J. Gould 2 H. M. Lowe 15 G. C. Hanson 15 W. B. Deasey 15 M. D. Holt & Son 15 F. W. Wornwell 14 U. C. Libby 6 Goodrich & Brown 22 12 15 New Hampshire—At Brighton, A. C. Foss 26 4 At N E D M & Wool Co. 6 Geo Heath 4 T. Shay 4 At Watertown, Woods & Moore 35 W. F. Wallace 70 28 4 At Emerson, Fred Savage 13 10 Swift & Co 644 Hall & Dorand 9 Morris Beef Co 533 N. H. Woodward 60 R. E. French 60 E. Piper 11 At N E D M & Wool Co. 6 W. F. Ricker 35 12 F. S. Atwater 5 5 J. A. Hathaway 67 635 At Brighton, J. S. Henry 17 Canada—At Watertown, J. A. Hathaway 115 At Waterford, J. S. Henry 27 50 Swift & Co 74

Export Trade.

The prices on State cattle at the English market have declined from \$40c@42c, d. w. The decline is not quite so much as the advance of last week. The range in prices, 114@124c, d. w. A few tops sold at 124@13c. Sheep remain steady at 13@14c, d. w. The stock all goes to Liverpool and London. Shipments of the week, 2445 cattle, 700 sheep.

Shipments and destinations: On steamer *Sylvania*, for Liverpool, 201 cattle by Morris Beef Company; 646 cattle, 638 States and 115 Canada sheep by J. A. Hathaway. On steamer *Castrian* for Liverpool, 67 cattle by Swift & Co.; 300 do. by Morris Beef Company. On steamer *Cambrian*, for London, 251 cattle by Morris Beef Company; 175 cattle and 74 Canada cattle by Swift & Co.; 100 do. by J. A. Hathaway.

Horse Business.

Market holds a steady position, values remain unchanged, and the disposals are not especially active, but quite fair. A good number of horses changed hands. More could be disposed of were it not for the right stamp, weighing from \$300@400 lbs., at a range of \$100@200. At Myer Abrams & Co.'s sale stable they had 6 carloads of well trained horses. The stock was steady at 13@14c, d. w. The sales were well sustained on all kinds offered. At H. S. Harris & Son's sale stable were sold 3 express and 1 freight carloads with no change in market. Acclimated horses were in good demand from \$50@75. At Welch & Hall's sale stable were 3 carloads on sale, composed of big and medium grades, from \$125@200, seconds at \$225@250. They sold nearly 100 head. At Moses Colman & Son's sale stable were sold 75 to 80 head from \$40@225; 1 pair family horses at \$375. Good saddlehorses in demand at \$200@250. All L. A. Brockway's sale stable auction trade was a little quiet with good retail demand.

Union Yards, Watertown.

Tuesday—Where good beef cattle were concerned there was a good healthy demand at strong prices. The slim grades were somewhat slow of sale at weak values. The trains being early the disposals were readily effected. H. F. Whitney sold 10 cattle, of 500 lbs. at 23@24c. O. H. Forbush sold 6 cows, of 800 lbs. at 4@5c; 3 do. of 2500 lbs. at 3@4c. Western cattle were not in large supply. The high cost deterred butchers from buying freely from this section.

Milch Cows and Springers.

Speculators were early at the yards ready to become owners of the better class of cows. Prices steady and fair disposals.

Fat Hogs.

Anything very nice sold at stronger prices. Some lots of local hogs at 6@7c, d. w.; Western at 5@6c.

Sheep House.

Sheep of best quality ruled 15c@160 lbs higher and lambs 10c@100 lbs lower, with rather more Western stock than a week ago. The bulk of sheep sales ranged at \$2.25@3.50c per lb. Lots \$5.50@100 lbs. Lambs at \$2.50@7.40. Topset \$7.50@100 lbs. H. S. Henry sold 12 spring lambs, \$3.50 each. W. F. Wallace sold 45 shorn yearlings, of 80 lbs. at 5c.

Live Poultry.

Amount marketed, 72,000 lbs. Prices stronger. Poul sold at 13@14c; chickens, 10@11c; roasters, 8@9c; broilers, 2@3c; f. p. b.

Dressed Veal Calves.

Maine—W. F. Crouse, 55; F. L. Libby, 40; E. L. Libby, 60; F. L. S. Company, 65; C. E. Hanson, 30; A. D. Kirby, 15; H. M. Lowe, 75; W. F. Deasey, 10; M. D. Holt & Son, 30; F. W. Wornwell & Son, 17; U. C. Libby, 6; Goodrich & Brown, 50.

New Hampshire—A. C. Foss, 16; A. J. Jones & Co., 100; George Heath, 67; T. Shay, 40; Wood & Moore, 175; F. S. Atwater, 50.

Vermont—Fred Savage, 40; Hall & Dorand, 22; N. H. Woodward, 130; E. E. French, 100; E. G. Piper, 25; W. A. Ricker & Co., 42; E. F. Ricker & Co., 65; F. S. Atwater, 50; J. S. Henry, 100.

Massachusetts—J. S. Henry, 90; O. H. Forbush, 45; R. Connors, 80; H. A. Gilmore, 45; scattering, 175; D. Simon, 15; W. Mills, 10; Abrams & Fay, 15; L. Stetson, 10; G. Cheney, 10; J. H. Fitch, 15; A. M. Biggs, 15; J. F. Day and J. O. Eriksen, 15; New York—N. E. D. M. & W. Co., 100.

Brighton, Tuesday and Wednesday.

Stock at yards: 2172 cattle, 34 sheep, 21,400 hogs, 1007 calves. From West, 1500 cattle, 21,300 hogs, 240 horses. Maine, 120 cattle, 20 sheep, 70 hogs, 480 calves. New Hampshire 20 cattle, 4 sheep, 100 calves. Vermont, 17 cattle, 15 hogs, 100 calves. Massachusetts, 200 cattle, 10 sheep, 100 hogs, 300 calves. Canada, 74 cattle.

Tuesday—2172 head of cattle found that way

The Markets.

ARRIVALS OF LIVE STOCK AT WATERTOWN AND BRIGHTON.

For the week ending May 10, 1905.

Sheep and Fat Cattle Sheep Suckers Hams Veal.

Notes

And Fat

Veal

Hams

Suckers

Hams

Veal

Hams

Our Domes.

The Workbox.

CHILD'S SWEATER.
(5 to 6 years.)

Four skins white Bear Brand Spanish yarn. One pair bone needles No. 1, 1 pair steel needles No. 12.

Cast 110 stitches on steel needles.

1st row—Two plain, puri 2, alternately to end of row, turn.

2nd row—Puri 2, 2 plain, alternately to end of row, turn.

Repeat these two rows alternately until the band is 2 inches deep. Change to bone needles and knit pattern as follows:

1st row—(*Puri 2, 2 plain, puri 2, 1 plain, puri 1, 1 plain, puri 1, 1 plain, puri 1, 1 plain. Repeat from (*) to end of row ending with puri 2, 2 plain, puri 2.

2d row—(* Two plain, puri 2, 2 plain, puri 1, 1 plain, puri 1, 1 plain, puri 1, 1 plain, puri 1. Repeat from (*) to end of row, ending with 2 plain, puri 2, 2 plain.

Repeat these two rows alternately until the back measures 15 inches. Leave 22 stitches each end for shoulders and bind off the intervening stitches for the neck.

Rib 1 and 1 for six rows at each shoulder and bind off.

Front—Repeat the back until you have 15 inches. Leave 32 stitches each end for shoulders and bind off intervening stitches for the neck. Knit each shoulder piece according to pattern for 2 rows.

3rd row—Knit 5 stitches according to pattern; bind off 3, 6 plain and repeat from (*) twice more or 3 times in all.

4th row—Knit according to pattern, casting on 3 stitches where they were bound off in preceding row. This makes 3 buttonholes.

Knit 2 rows according to pattern and bind off.

Sleeves—Cast 110 stitches on bone needles and knit in same rib as sweater for 12 inches.

For the Cuff—With steel needles, on right side of sleeve (narrow) 4 times, (*) knit 3 together (narrow) 5 times. Repeat from (*) 6 times more, or 7 times in all; (*) knit 3 together (narrow) 4 times. You now have 51 stitches on the needle, increase 1 stitch and sew in ribs of 2 plain and puri 2 to a depth of 3 inches and bind off.

Sew up sleeves and underarm seam, letting the front lap one-half inch over the back at top of shoulder and sew in sleeves, putting seam to seam.

Collar—On front pick up 48 stitches and knit in ribs of 2 plain, puri 2, for 3 rows.

4th row—Knit a buttonhole each end as follows: knit 2, bind off 3, rib to within 5 stitches of the end, bind off 3, puri 2.

5th row—Cast on 3 stitches where the 3 were bound off in preceding row. Rib 6 rows. Make a buttonhole each end. Rib 6 rows. Make a buttonhole each end. Rib 12 rows.

Make a buttonhole each end. Rib 1 row and bind off.

Collar and back, pick up 48 stitches and knit in ribs of 2 plain 2 plain and puri 2 for 3 rows. Make a buttonhole each end. Rib 1 row and bind off.

Sew 3 buttons on top of each shoulder and 3 on each side of collar; turn back front part of collar and button on top button, then turn back the other half of collar and button on same button. EVA M. NILES.

Flatirons.

The flatirons must always be perfectly clean, and it is best to scour them each time they are used; by doing it thus frequently they are kept clean with very little work, while if neglected they are constantly doing poor work, soiling the clean clothes, and a long scouring when they are cleaned. After they are washed and scoured each week, place on the stove to dry thoroughly and then slip each one into a little bag made with drawstrings for the purpose, or, at least, slip each one into an empty paper bag to keep clean from dust till they are used again. A rag dipped in kerosene and salt is excellent for smoothing the bottom of an iron; or sprinkle some salt between layers of waxed paper like that used for lining cracker boxes, which should be saved for the purpose.

A Cure for Colds.

Here is a cure for colds of any kind. It has been tested repeatedly and has never failed, and as I used to catch cold, which resulted in a bad attack of bronchitis, I can speak from experience. In cases of pneumonia it will not fail to cure if taken in time. Make a ball of cotton batting about the size of a small marble, saturate it well with alcohol, then drop on to six drops of chloroform; cover it lightly with a thin piece of cotton batton, hold to the mouth, and inhale the fumes, inflating the lungs well. It will open and expand every lung cell instantly.—Woman's Home Companion for May.

The Linen of Ireland.

T. J. MacMahon, who was the commissioner of the Irish Linen Industries Association at the St Louis Exposition, says: "I have often been asked during visits to America if the time would ever come when that country would grow its own flax, spin the yarn and weave and grass bleach the lawn and damask within the borders of its own domain. It is mainly a question of climate, soil, atmosphere and water, and up to this time there have not been found in conjunction so perfectly adapted to the purpose of linen making as in Ulster. Ireland is located in the drift waters of the Gulf Stream, which tends to modify the climate to a degree of average temperature. The soil of Ulster abounds in the salts and other mineral substances which are essential to the growth of a long, slender stem containing the flax fibre.

"The stalks are gathered into bundles and immersed for about four weeks in stagnant water. They are then spread upon the sea, where they must dry slowly. This completes the disintegrating process, and the woody covering of the stalk is easily removed, releasing the long, slender fibre from which linen is made. This process is a unique feature of the linen industry. No other fibre plant is so treated, and no substitute for the retting process has ever been discovered.

"The atmosphere, moist, mild and constant, offers the best natural surroundings in which to spin the finest flax without danger of injuring the delicate fibre of the plant. The bleaching process consists of exposing the long webs of cloth to the alternate showers and the sun on the lawn fields. In six to eight weeks the natural process bleaches out the natural brown color of the fabric, leaving a rich, creamy white, the perfection of Irish damask.

"There is a tiny field of flax now growing on an experimental farm of the United States under the direction of Professor Wheeler. It gives a faint idea of what a countryside looks like under the flax crop. Mr. Wheeler has located this little section in a region representing Wisconsin and Minnesota. I believe that the State of

Washington, where the natural conditions fairly correspond to those in Ireland, is the ideal State in the Union where the culture of flax and the making of linen may be carried on.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in growing the flax, and the annual value of the finished product is \$65,000,000, almost half of which is sold to the people of the United States. The American civil war, which shut off the supply of cotton from the English mills and forced the adoption of linen cloth as a substitute for cotton fabrics, gave a stimulus to the Irish linen trade which has never been lost.

"The linen industry of Ulster gives actual employment to over two hundred thousand persons, in addition to those employed in

The Horse.

Cheesing a Work Horse.
Look for weight and quality. The market, when it talks about a draft horse means a horse that when he is in good condition weighs 1600 pounds or more, and the more weight, when quality goes with it, the higher price he will bring. The horse of the draft-type that weighs less than 1600 pounds drops into such classes as chunks, and down to 1200 or 1300 pounds they are called chunks. If pretty, trim and active, nervy and nicely finished, with style, he will come into the class of expresser, fire department horse, etc., for which there is more and more demand, but they must be choice and full of nerve. Then there is the busser, which they use on busses in foreign countries, and to some extent in this country. There is a demand growing up for these smaller horses of the draft type.

I learned a little adage when I was a boy that has saved me some money in dealing with horses, and that is this: "No feet, no horse." When I judge a horse, when I buy a horse, when I look at a sire to use for breeding purposes, I really look down at his feet first, then I look up at his top lines, and then at the fat on his body.

You may buy a horse that is not quite perfect in body and his top lines, and with plenty of care and corn and clover hay and some molasses if necessary (if you are going to let the other fellow have him pretty soon), you can fill up the weak places in his body, but I have never found any way of filling up the places in his heels or his hoofs. So, starting at his feet, I want a high, strong heel; a heel that will not spring as that horse moves along on the road, I want a full, plump, well-rounded foot, not too narrow at the heel and not too wide, with a good tough shell upon it, and that shell thick and well fastened to the body of the hoof. I want a properly sloping pastern, that is, a pastern that slopes possibly at an angle of forty-five degrees, or if you drop a plumb line down the centre of the leg, so that your plummet will fall a little behind the heel. When your horse travels upon the road and strikes upon the hard surface, either at a walk or trot, the jarring on a straight pastern goes from joint to joint, from tendon to tendon clear up the leg, but if there is a springiness in that pastern between the first two joints, that jar goes no further than the first joints.

Again, when we are speaking about the pastern of the hind leg, if it is a straight pastern, and you put that horse to a hard pull, the tendons naturally tighten up and shorten up with the hard work, and pretty soon you will have a horse that knuckles over, and he cannot pull much as if he had some slope to that pastern.

A clean, fat leg, showing the tendons standing out, and, if he is the class of horse that carries hair on the legs, then be sure that the hair covering upon the leg is soft, silky and wavy, not the short, kinky kind, such as a negro grows on his head. The silky, wavy hair indicates a good quality of dainty bone underneath and a short, kinky hair indicates a coarse porous quality of bone underneath that covering. I do not mean to say that the negro's brain is necessarily that way under his hair, but the horse's leg is that way, because I have cut them myself. I have seen them out, and I have seen invariably that very coarse and rough hair on the leg shows a coarse, porous bone, and clean, silky hair on the leg shows a dainty form of bone.—George McKerrow, Madison, Wis.

Breeders' Notes.

No sensible farmer can expect to raise a profitable crop by planting good seed in impoverished or unfertile soil. Neither is it used to make horse breeding profitable by mating inferior mares with the best of stallions.

It should be the aim of every farmer who raises horses to breed up. Every generation of horses should prove superior to the preceding one. It will be if proper care is used in the selection of brood mares and stallions.

Twenty-five dollars extra spent in educating and grooming a horse to properly fit him for market will often add from \$50 to \$100 and sometimes much more than that to his selling value.

Trainers, in New England, who give their horses a slow, careful preparation in the spring and early summer generally bring home the most money at the close of the season.

With the large number of well-bred stallions that are standing in New England at moderate service fees there is no excuse for any man to breed to a scrub stallion.

Many breeders throughout New England are planning to raise early foals next season. This will be to the advantage of such as intend to start the youngsters in colt stakes.

The scarcity of good horses has caused an improved demand for the cheaper grades of serviceable animals and prices on such are now higher than for years.

Liberal feeding and good care are just as essential to a high degree of success as the selection of good brood mares and first-class stallions.—Horse Breeder.

Notes from Washington, D. C.

THE SEEDLESS-APPLE FARM.

The fraud in connection with the exploitation of the so-called coreless and seedless apple has been so thoroughly proven, not only by the various agricultural journals but to the satisfaction of the Government officials, that it would seem as though some official cognizance should be taken of the matter, and, if possible, a fraud order issued by the Postoffice Department barring the use of the mails to the concern engaged in separating people from their money in exchange for something practically worthless.

The apple experts of the Department of Agriculture state that they have seen no regulation advertisements of this apple in any of the papers; on the other hand thousands of columns have appeared during the last year, ranging all the way from the most associated press notices, which were sent out to some seven hundred of the largest daily papers to special syndicated articles, illustrated and painted in words more enticing than the pictures of the apples. Even some of the staid, semi-scientific papers and the magazines have aided in free advertising, while the New York Journal devoted an entire page with colored illustrations rivaling theatre posters to this and other seedless freaks.

Photographs taken by the photographer of the Agricultural Department's Division of Pomology from the samples of the coreless and seedless apple submitted to the Government show large and woody cores, while the further claim of the promoters that by reason of the non-blossoming attribute of this apple the codlin moth does not affect the variety was disproved by one

THE BUILDINGS OF HILLSIDE FARM.

A prominent Maine stock farm on the shores of Moosehead Lake. The purebred Guernsey bull shown in the picture has been trained for driving and special farm work.

of these apples containing a well-developed worm.

The Assistant Pomologist, W. A. Taylor, states that this apple has no standing whatever among apple men and horticulturists, but that the uninformed public is apparently being successfully taken in. The officers of the company are in every case, with the exception of the president, men unassociated with fruit culture, and the manager is a Western cattle man.

Mr. Taylor says that the statements in the literature furnished by the company are very skillfully worded; the statements made in the American public press, by which the people are being influenced, are extravagant and misleading if not in a large measure entirely untrue.

MILK GOATS FOR BABY GROWING AND FOR CHEESE.

The recently gotten out reports of the Department of Agriculture on milk goats have brought in a flood of letters of inquiry and have attracted much attention to this industry, a branch now one in this country being of great importance in Europe. Mr. George F. Thompson of the Bureau of Animal Industry states that there are only about thirty pure bred milk goats in the United States, and that of the two million or so American goats reported by the census, probably not over five thousand are of any value as milk producers. Goat milk, owing to its ease of digestion and freedom from tuberculous bacteria is of great value in child rearing and in the treatment of weak stomachs generally; it is also used largely in producing the high priced cheeses of Italy and Switzerland, which sell in this country for from fifty cents a pound upward.

The Department of Agriculture is expecting to import a small flock of pure bred milk goats, which in Europe yield a gallon or more of milk a day, for the purpose of crossing them on the few thousand common milk goats in this country which Mr. Thompson says may be found to yield from a pint to a quart of milk a day. It is believed by the Department that a very important industry has been thus far overlooked in the production of milk goats.

Father John looked nettled, for the subject of trees was one on which he and Farmer Henry had always disagreed. "Perhaps you made enough last year to afford to lose a little this season," continued Farmer Henry.

Father John gave a grunt: "I might have, if it had not been for the pesky vermin. Bugs and worms are particularly fond of this part of the country. How is it over your way; just the same I suppose?" Folks said the plague was universal.

"No, we had little trouble, and would not have had that much if it had not been for our neighbors. We leave the hedgehog standing for the birds to build in, and we protect them. They keep down the pests, and might rid us of them if they did not swarm over from the neighboring towns where they prefer worms and bugs to shrubs and birds."

"Pooh!" commented John. If there was anything he detested it was birds and bushes. "You never can make me believe that." The very words he used to say when they quarreled on their father's farm. "I can't afford to lose grain and fruit to fallen birds."

"Which eats the most, vermin or birds?" asked Henry.

"It's something besides birds that is needed," rejoined John, overlooking the fact that bird raising had insured good crops on Henry's farm. "And as for bushes, I can't abide such clutter. A thrifty farmer has clean walls and fences, and I cut down and turn over all my hedge-

John climbed into Henry's wagon and showed him around the farm. Everything looked bare, and even bleak in the midst of the spring greenness. The hedgerows were full of blackened stumps, with here and there heaps of dirt and brush not yet disposed of, and piles of stones, and occasionally dumping spots that smelled as disagreeably as they looked. But John appeared proud of all this, which to his mind was a "cleared-up," thrifty condition.

"We are progressive here," he said, "we are going to have sidewalks along these roads some day. We have cut down the bushes and begun filling in."

"How many years will it be before all these mighty and unwholesome spots are leveled and covered?" asked Henry.

John stared. "Of course we can do it a little at a time," he said, "and as for the dump, why all this stuff has to go to somewhere. We can't have it around our door-yards."

"You might as well," said Henry, "for you breathe the air that comes from it, and so does every one else in the town. Why don't you dig holes and bury up what you can't burn?"

"Time is money," observed John.

"You may save not only time and money but precious health, and even lives, by attending to this matter," suggested Henry.

"Yes, yes, you are as cranky as ever!" exclaimed John.

"Gives up keeping chickens?" asked Henry.

"Yes; so much wet weather last year; ground got sour and the fowl sickened. Sold them all off."

"I did not have any trouble," declared Henry. "The roots of the trees on the place made such good drainage. Trees absorb a good deal of moisture, too. A neighbor of mine whose land was not sweet, and who had sickness in his family about all the time, set out a half dozen trees about his place two years ago, and you would be surprised to see the improvement in the land and the family."

This was too much for John. "Of all your cranky ideas that is the most idiotic," he exclaimed. "I have dug up about all the trees on my place, and I am finishing the job this season. I am not half as much troubled about the droughts, as I am about the droughts. Why, last year, the grass on the lawn withered clear into the roots, and the kitchen garden just shrivelled up. I thought it did not pay to have trees when moisture was scarce, and this spring I am digging up those malacious shade trees."

"I am setting out more trees," replied Henry, "trees cool the air and protect the ground, and not only your orchard but your cattle and lawn will thrive better for the trees, not to mention the comfort of it to the family in the house and out."

"I have not given up any of the ideas you called cranky notions," answered Farmer Henry, "on the contrary, I am the

carrying out of these same notions that has brought me prosperity."

"I saw by the papers there was a lot of damage done in this town in the big storm we had."

"Yes, the wind made a pretty clean sweep. Not much encouragement to try to get ahead in this world, when it isn't one thing it is another. How was it up in Elmville?"

"Little damage."

"Yes, your natural advantages are better than ours."

"Well, Brother John, as far as situation goes, you have the advantage of us, not being so exposed, but we have preserved the forests around us, and they break the force of these gales, and by the time they get to the town, their backs are weak. I noticed as I came through great tracts of timber cut down here."

"That is what we buy it up for; to sell," said Farmer John. "I own a sizable bit of timber and I made a respectable sum out of it, too."

"How much do you lose out of it when the storm struck you?" asked Farmer Henry.

MABEL GIFFORD.

Norfolk County, Mass.

Forcing the Milk Farmers.

That the milk contractors of Boston are using the Board of Health as a catalyst is now quite generally understood. The dealers are naturally very willing to get milk of better grade and more carefully handled, provided they pay only the same old price. By prodding the city Board of Health to stiffen the regulations and to enforce them, they hope to secure their ends at no extra cost and without the trouble of fighting their battles direct.

The board of health takes the responsibility, the milk farmers are forced to incur added labor and expense without pay, while the contractors, the instigators of the whole movement, merely stand aside and receive the benefit in the shape of better and more valuable milk that sells more readily, increasing the demand and adding to the contractors' profit. Without much doubt the farmers would sometime be forced to force extra pay for the extra care, cost of ice, etc., urging their claims at some favorable opportunity. But just now the prospect is for a veritable lot of trouble and nothing to pay for it.

Right here the contractor's shrewd little scheme is liable to run up hard against a stamp. So many of the farmers may rebel and quit in disgust the milk shipping business, that the resulting shortage will become serious.

Some of the old time shippers already talk of stopping shipments, if shippers are forced to be compelled to use ice on the farm. They see little profit in the business as best, and have kept on mainly because it seemed easier to stay in the rats than to get out. But with the prospect of a lot of new rules to follow, and perhaps more or less milk condemned and sent back, no question but that some of them will quit the business.

Whether a shortage will occur depends on the good sense of the health officials and their backers, the milk contractors. Reasonable rules very gradually carried into effect so as to give producers time to adjust themselves to new requirements, might be carried through without much trouble, and sooner or later the producers would get better prices for the better milk. But if the "reformers" in their zeal, inspired by the dealers and being themselves out of touch with the farmers, should try abruptly to force it home upon the producers, there is likely to be trouble for all concerned. Nothing delights the contractors like a big surplus of milk with the present it brings for paying the producers a cut price. On the other hand, they dread a shortage, because it not only increases the average price of milk, but it also affords conditions favoring any demands of the producers for better terms.

Home, for their own interest, the dealers will find it best to go rather slowly in the direction of enforcing new rules that will check production and reduce shipments. Judging from remarks lately made by leading contractors, some of them are beginning to take this cautious view of the situation.

Groves in Good Condition.

The monthly report of the Agricultural Department, promulgated Wednesday evening, showed that 1,033,000 acres of the winter-wheat area planted last fall have been abandoned. This compares with an abandonment of 4,000,000 acres on the same eve during the same period and 204,000 acres of the 1905 crop. The area remaining is 20,720,000 acres, which compares with 20,865,000 acres—the final harvest of 1904.

The Department reports the condition of winter wheat on May 1 at 91.5, which is an improvement of .3 from the April 1 condition, and compares with 91.8 a year ago. Basing his figures on an average value of a condition of one hundred for the past five years the statistician of the New York Produce Exchange, Mr. Henry Holman, figures the premium of the winter wheat crop at \$1,777,000 bushels, which was the April estimate, but is about 147,000,000 bushels more than the winter wheat actually harvested in 1904.

The average condition of winter rye is given as 91.5, against 91.1 one month ago, 91.2 one year ago, 91.5 two years ago and 91.5 the May average for ten years.

Within a period of twenty-four hours I received letters leading to orders for Rhode Island Red breeding stock and eggs to the value of \$45, all referring to my advertisement in your paper.—F. F. Fluke, Holbrook, Mass.

It is feared that the frost and ice of April severely injured the apple, cherry, plum and peach crop of Valley and Middle Virginia, which was in heavy bloom at that time.

You may not be fully deceived," declared John, "about that; you can't tell

INSURE IN

THE TRAVELERS
INSURANCE COMPANY

OF

HARTFORD, CONN.

CONTRACTS.

LIFE.

Most liberal Policies in the oldest, largest, and strongest Accident Company.

NON-PARTICIPATING CONTRACTS—Net cost and all results guaranteed.

AND DO IT NOW.
S. F. WOODMAN, Gen. Agt.
OLIVER BUILDING,
141 MILK STREET, BOSTON.

THE AMERICAN LOAN AND TRUST COMPANY, 53 STATE ST., BOSTON, WITH A CAPITAL AND SURPLUS OF \$2,600,000, RESPECTFULLY SOLICITS THE ACCOUNTS OF CORPORATIONS, FIRMS AND INDIVIDUALS. INTEREST ALLOWED.

KENDALL'S SPAVIN CURE TRADE MARK.

When you see the above trade mark on a label you are sure that you are getting the genuine KENDALL'S SPAVIN CURE.

That means that you are getting the only absolutely true tested and reliable remedy for Spavin. Many false, copy, imitation and all forms of nostrums are sold. A single bottle may cure your horse. It has worked that way in about a thousand cases. At this time I can offer you KENDALL'S SPAVIN CURE on a low price of \$1.00 per bottle. Send for sample.

Dr. E. J. Kendall, Holbrook Falls, Vt.

Price \$1.00 per bottle. Price \$1.00 per bottle. As a National for Family and Farm use. Add your druggist for KENDALL'S SPAVIN CURE.

Dr. E. J. Kendall, Holbrook Falls, Vt.

Dr. E. J. Kendall, Holbrook Falls, Vt.